

WO 00/39157

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## SEQUENCE LISTING

<110> Connaught Laboratories Limited

<120> Chlamydia antigens and corresponding DNA fragments and uses thereof

<130> 77813-6

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<150> US 60/114,060

<151> December 28, 1998

<150> US 60/123,967

<151> March 12, 1999

<150> US 60/141,271

<151> June 30, 1999

<160> 4

<170> PatentIn Ver. 2.0

<210> 1

<211> 1637

<212> DNA

<213> Chlamydia pneumoniae

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<221> CDS

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aaa acc gaa gaa aaa cct ttt gga aaa ttg cgc tct ttc ttg tgg ccg	104					
Lys Thr Glu Glu Lys Pro Phe Gly Lys Leu Arg Ser Phe Leu Trp Pro						
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ata cat act cac gag cta aag aaa gtt ctg cca atg ttc cta atg ttc	152					
Ile His Thr His Glu Leu Lys Lys Val Leu Pro Met Phe Leu Met Phe						
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Phe Cys Ile Thr Phe Asn Tyr Thr Val Leu Arg Asp Thr Lys Asp Thr						
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ctt att gtg gga gct cct ggt tct ggt gca gag gca ata cct ttc atc	248					
Leu Ile Val Gly Ala Pro Gly Ser Gly Ala Glu Ala Ile Pro Phe Ile						
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aag ttt tgg ctt gtt gtc ccc tgt gct att atc ttt atg ctt att tat	296					
Lys Phe Trp Leu Val Val Pro Cys Ala Ile Ile Phe Met Leu Ile Tyr						
70	75	80				
gca aag cta agt aat att tta agt aag cag gcc tta ttt tat gca gtg	344					
Ala Lys Leu Ser Asn Ile Leu Ser Lys Gln Ala Leu Phe Tyr Ala Val						
85	90	95				

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gga acg ccc ttt tta att ttc ttt gcc ctg ttc ccg act gta att tat	392
Gly Thr Pro Phe Leu Ile Phe Phe Ala Leu Phe Pro Thr Val Ile Tyr	
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ccg cta cgc gat gtt tta cat cct aca gaa ttt gct gac cgt tta cag	440
Pro Leu Arg Asp Val Leu His Pro Thr Glu Phe Ala Asp Arg Leu Gln	
115 120 125 130	
gcc atc cta cct cca gga ttg cta gga ctc gtt gcc atc tta aga aac	488
Ala Ile Leu Pro Pro Gly Leu Leu Gly Leu Val Ala Ile Leu Arg Asn	
135 140 145	
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Trp Thr Phe Ala Ala Phe Tyr Val Leu Ala Glu Leu Trp Gly Ser Val	
150 155 160	
atg cta tct cta atg ttc tgg gga ttt gct aat gaa att aca aaa atc	584
Met Leu Ser Leu Met Phe Trp Gly Phe Ala Asn Glu Ile Thr Lys Ile	
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cac gaa gca aag cgt ttc tac gct ctt ttc ggt atc gga gct aat att	632
His Glu Ala Lys Arg Phe Tyr Ala Leu Phe Gly Ile Gly Ala Asn Ile	
180 185 190	
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Ser Leu Leu Ala Ser Gly Arg Ala Ile Val Trp Ala Ser Lys Leu Arg	
195 200 205 210	
gct tcc gtt tct gaa ggt gta gat cct tgg gga att tct tta cgt ctt	728
Ala Ser Val Ser Glu Gly Val Asp Pro Trp Gly Ile Ser Leu Arg Leu	
215 220 225	
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Leu Met Ala Met Thr Ile Val Ser Gly Leu Val Leu Met Ala Ser Tyr	
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Trp Trp Ile Asn Lys Asn Val Leu Thr Asp Pro Arg Phe Tyr Asn Pro	
245 250 255	
gaa gaa atg caa aag ggg aaa aaa ggt gct aaa cct aaa atg aat atg	872
Glu Glu Met Gln Lys Gly Lys Lys Gly Ala Lys Pro Lys Met Asn Met	
260 265 270	
aaa gat agc ttc ctc tat ctt gat aga tct cct tat att ctt tta tta	920
Lys Asp Ser Phe Leu Tyr Leu Asp Arg Ser Pro Tyr Ile Leu Leu Leu	
275 280 285 290	
act ctc ttg gtt att gcc tat ggt att tgc att aac tta atc gaa gtg	968
Thr Leu Leu Val Ile Ala Tyr Gly Ile Cys Ile Asn Leu Ile Glu Val	
295 300 305	
act tgg aaa agt cag ctg aaa ctg caa tat cct aat atg aat gac tat	1016
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agt gag ttc atg ggg aac ttc tcc ttc tgg act ggc gta gta tcc gta	1064
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Leu Thr Gly Ala Leu Val Thr Pro Val Met Val Leu Leu Thr Gly Ile
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Val Phe Phe Ala Leu Val Ile Phe Arg Asn Gln Ala Ser Gly Leu Val
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gct atg ttc ggt aca act cct ctc atg cta gct gtg gtt gtc gga gct 1256
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Thr Lys Glu Met Ala Tyr Ile Pro Leu Asp Gln Glu Gln Lys Val Lys
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Gly Lys Ala Ala Ile Asp Val Val Ala Ala Arg Phe Gly Lys Ser Gly
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gct atg acc cct tat ctt gca gtg att ctt ctt ttc atc att gct att 1496
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tgg ttg gtt tct gca act aag tta aac aaa cta ttc tta gcg cag tct 1544
Trp Leu Val Ser Ala Thr Lys Leu Asn Lys Leu Phe Leu Ala Gln Ser
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  145                                  150                                  155                                  160  
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 Asp Tyr Ser Glu Phe Met Gly Asn Phe Ser Phe Trp Thr Gly Val Val  
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 Ser Val Leu Ile Met Leu Phe Val Gly Gly Asn Val Ile Arg Lys Phe  
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SUBSTITUTE SHEET (RULE 26)

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 Asp Ser Thr Lys Glu Met Ala Tyr Ile Pro Leu Asp Gln Glu Gln Lys  
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 Val Lys Gly Lys Ala Ala Ile Asp Val Val Ala Ala Arg Phe Gly Lys  
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